

WO 1996-EP2852

W 19960629

US 1998-981491

A3 19980108

AB Vacuum rectification of air- and/or temperature-sensitive substances in columns containing ordered metal mesh packings includes (1) liquid distribution by using channel distributors containing ≥ 500 (preferably 900-1200) draining spots/m² which are turned by an angle of 90° to the mesh position of the packing elements placed directly below the distributors. Underneath the liquid distributor, ≥ 2 packing elements (only 20-100 mm high) are placed with the mesh positions turned by 90°. The rectification is done in absence of air in an adiabatic mode. Typically, the procedure is suitable for purification of vitamin E acetate. Pressure at the column top is 0.5-1 mbar, and pressure at the column bottom is 1-4 mbar.

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(FILE 'HOME' ENTERED AT 14:22:40 ON 17 AUG 2007)

FILE 'REGISTRY' ENTERED AT 14:22:54 ON 17 AUG 2007

L1 STR

FILE 'CASREACT' ENTERED AT 14:27:41 ON 17 AUG 2007

L2 0 SEA SSS SAM L1 (0 REACTIONS)

L3 0 SEA SSS FUL L1 (0 REACTIONS)

FILE 'BEILSTEIN' ENTERED AT 14:28:07 ON 17 AUG 2007

L4 STR L1

L5 1 SEA SSS SAM L4

L6 124 SEA SSS FUL L4

L7 124 SEA ABB=ON PLU=ON L6/COM

SEL BRN

L8 124 SEA ABB=ON PLU=ON (1895475/RX.PBRN OR 1915438/RX.PBRN OR
 1915439/RX.PBRN OR 1917365/RX.PBRN OR 1917366/RX.PBRN OR
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 2030249/RX.PBRN OR 2033472/RX.PBRN OR 2058778/RX.PBRN OR
 2058779/RX.PBRN OR 2058780/RX.PBRN OR 2058781/RX.PBRN OR
 2058782/RX.PBRN OR 2131033/RX.PBRN OR 2140921/RX.PBRN OR
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 5280880/RX.PBRN OR 5446951/RX.PBRN OR 5565190/RX.PBRN OR
 5570370/RX.PBRN OR 5754986/RX.PBRN OR
 L9 STR L1
 L10 1 SEA SSS SAM L9
 L11 149 SEA SSS FUL L9
 L12 148 SEA ABB=ON PLU=ON L11/COM
 SEL BRN
 L13 183 SEA ABB=ON PLU=ON (1951618/RX.RBRN OR 1959199/RX.RBRN OR
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 5741881/RX.RBRN OR 5742945/RX.RBRN OR
 L14 3 SEA ABB=ON PLU=ON L13 AND L8
 L15 STR L1
 L16 11 SEA SSS SAM L15
 L17 129 SEA SSS FUL L15
 L18 129 SEA ABB=ON PLU=ON L17/COM
 SEL BRN
 L19 267 SEA ABB=ON PLU=ON (2546112/RX.RBRN OR 2869347/RX.RBRN OR
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 6472785/RX.RBRN OR 6472786/RX.RBRN OR 6472787/RX.RBRN OR
 6472829/RX.RBRN OR 6472830/RX.RBRN OR

L20 0 SEA ABB=ON PLU=ON L19 AND L13
 L21 0 SEA ABB=ON PLU=ON L14 AND L19
 L22 STR L1

FILE 'REGISTRY' ENTERED AT 14:37:36 ON 17 AUG 2007

L23 0 SEA ABB=ON PLU=ON TRIPHENYLPHOSHINE/CN
 E TRIPHENYLPHOSPHINE/CN
 L24 1 SEA ABB=ON PLU=ON TRIPHENYLPHOSPHINE/CN
 D SCA
 L25 STR L22
 L26 STR L25

FILE 'CASREACT' ENTERED AT 14:39:02 ON 17 AUG 2007

L27 2 SEA SSS SAM L26 (12 REACTIONS)
 D SCA
 L28 9 SEA SSS FUL L26 (19 REACTIONS)
 L29 STR L26
 L30 1 SEA SSS SAM L29 (1 REACTIONS)
 L31 1 SEA SSS FUL L29 (1 REACTIONS)
 L32 9 SEA ABB=ON PLU=ON L31 OR L28

FILE 'BEILSTEIN' ENTERED AT 14:41:22 ON 17 AUG 2007

L33 STR
 L34 50 SEA SSS SAM L33
 L35 STR L33
 L36 14 SEA SSS SAM L35
 L37 STR L35
 L38 10 SEA SSS SAM L37
 L39 STR L37
 L40 12 SEA SSS SAM L39
 L41 545 SEA SSS FUL L39
 L42 526 SEA ABB=ON PLU=ON L41/COM
 SEL L42 BRN
 L43 9250 SEA ABB=ON PLU=ON (10219316/RX.RBRN OR 10228975/RX.RBRN OR
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D QUE L4

D QUE L9

L44 19 SEA ABB=ON PLU=ON L13 AND L43

D QUE L15

SEL BRN L18

L45 112 SEA ABB=ON PLU=ON (2546112/RX.PBRN OR 2869347/RX.PBRN OR

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August 17, 2007

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6472829/RX.PBRN OR 6472830/RX.PBRN OR
L46      18 SEA ABB=ON  PLU=ON  L45 AND L44
L47      STR
L48      0 SEA SSS SAM L47
L49      STR L47
L50      1 SEA SSS SAM L49
L51      350525 SEA ABB=ON  PLU=ON  C<10 AND O=2
L52      0 SEA SUB=L51  SSS SAM L47
L53      0 SEA SUB=L51  SSS FUL L47
          D QUE
L54      2896234 SEA ABB=ON  PLU=ON  C<20 AND O>2
L55      2 SEA SUB=L54  SSS SAM L47
L56      578724 SEA ABB=ON  PLU=ON  C<10 AND O>2
L57      2 SEA SUB=L56  SSS SAM L47
L58      341 SEA SUB=L56  SSS FUL L47
          SEL BRN
L59      692 SEA ABB=ON  PLU=ON  (10152067/RX.RBRN OR 10152530/RX.RBRN OR
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          1910533/RX.RBRN OR 1
L60      11 SEA ABB=ON  PLU=ON  L59 AND L19 AND L8
L61      29 SEA ABB=ON  PLU=ON  L46 OR L60
L62      0 SEA ABB=ON  PLU=ON  L61 AND BABSRN
L63      0 SEA ABB=ON  PLU=ON  L61 AND BABSRN/FA
          D COST
          D L61 RX 10
          D L61 IDE 10

FILE 'CASREACT' ENTERED AT 15:02:59 ON 17 AUG 2007
L64      1 SEA ABB=ON  PLU=ON  WOLLEB?/AU AND L32
          D IBIB

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L65 STR L1
 L66 1 SEA SSS SAM L65 (1 REACTIONS)
 L67 6 SEA SSS FUL L65 (12 REACTIONS)
 L68 1 SEA ABB=ON PLU=ON L67 AND L32
 L69 14 SEA ABB=ON PLU=ON L67 OR L32

FILE 'CASREACT' ENTERED AT 15:12:27 ON 17 AUG 2007

E EXNER K/AU
 E MASSONNE K/AU
 L70 23 SEA ABB=ON PLU=ON ("MASSONNE K"/AU OR "MASSONNE KLEMENS"/AU
 OR "MASSONNE KLEMES"/AU)
 E LAAS H/AU
 L71 11 SEA ABB=ON PLU=ON "LAAS HARALD"/AU
 E GLAS D/AU
 L72 2 SEA ABB=ON PLU=ON "GLAS DETLEV"/AU
 E SZARVAS L/AU
 L73 13 SEA ABB=ON PLU=ON ("SZARVAS LASLO"/AU OR "SZARVAS LASZLO"/AU)
 E EXNER K/AU
 L74 9 SEA ABB=ON PLU=ON ("EXNER KAI"/AU OR "EXNER KAI MICHAEL"/AU)
 L75 43 SEA ABB=ON PLU=ON (L70 OR L71 OR L72 OR L73 OR L74)
 L76 2 SEA ABB=ON PLU=ON L75 AND ?VITAMIN?
 L77 13 SEA ABB=ON PLU=ON L75 AND ?ACETAT?
 L78 13 SEA ABB=ON PLU=ON L76 OR L77

FILE 'CASREACT' ENTERED AT 15:16:01 ON 17 AUG 2007

D QUE L69
 D L69 IBIB ABS CRD TOT

FILE 'CAPLUS' ENTERED AT 15:16:58 ON 17 AUG 2007

D QUE L78

FILE 'CAPLUS' ENTERED AT 15:17:28 ON 17 AUG 2007

E EXNER K/AU
 L79 32 SEA ABB=ON PLU=ON ("EXNER K"/AU OR "EXNER KAI"/AU OR "EXNER
 KAI MICHAEL"/AU)
 E MASSONNE K/AU
 L80 45 SEA ABB=ON PLU=ON ("MASSONNE KLEMENS"/AU OR "MASSONNE
 KLEMES"/AU)
 E LAAS H/AU
 L81 31 SEA ABB=ON PLU=ON ("LAAS H"/AU OR "LAAS HARALD"/AU)
 E GLAS D/AU
 L82 14 SEA ABB=ON PLU=ON ("GLAS D"/AU OR "GLAS DETLEV"/AU)
 E SZARVAS L/AU
 L83 16 SEA ABB=ON PLU=ON ("SZARVAS LASLO"/AU OR "SZARVAS LASZLO"/AU)
 L84 119 SEA ABB=ON PLU=ON (L79 OR L80 OR L81 OR L82 OR L83)
 L85 6 SEA ABB=ON PLU=ON L84 AND ?VITAMIN?
 L86 25 SEA ABB=ON PLU=ON L84 AND ?ACETAT?
 L87 6 SEA ABB=ON PLU=ON L85 AND L86

FILE 'CAPLUS' ENTERED AT 15:19:25 ON 17 AUG 2007

D QUE L87
 D L87 IBIB ABS TOT